ITE

Indirect calorifier-solar

ITE - 300/400/500/600/750/1000

Indirect water heater (calorifier) for solar applications
• Single-wall spiral heat exchanger • PermaGlas Ultra Coat second-generation glass coating technology prevents corrosion • ITE 400-1000: Insulated ring base • Insulated access cover for comprehensive waterside maintenance • Replaceable magnesium anode • Options: Flexible magnesium anode for installation in confined areas • Powered anode for reduced maintenance requirements • Temperature and pressure valve with stainless steel spring set to 95°C and a maximum water pressure of 7 bar • Analogue temperature gauge (0-120°C) • Electric element heat packs (3 - 36 kW) • Optional ancillaries: unvented kits • Destratification pump kit

Innovation has a name.

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ITE

Technical specifications

		ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
Technical data						
Output coil	kW	52	68	72	80	87
Surface area coil	m²	2.45	3.11	3.45	3.72	4.82
Water capacity coil	l	14.8	18.8	29.3	31.6	40.9
Flow rate coil (80-60°C)	l/h	2236	2924	3096	3440	3741
Pressure drop coil	mbar	244	489	104	128	259
Maximum working pressure tank	bar	10	10	10	10	10
Maximum working pressure coil	bar	16	16	16	16	16
Maximum operating temperature tank	°C	95	95	95	95	95
Maximum operating temperature coil	°C	110	110	110	110	110
Standby loss	kWh/24h	1.60	1.88	1.85	2.03	2.19
Anodes	-	1	1	1	1	1
Maximum weight	kg	520	657	881	971	1338
Draw-off capacity						
Storage capacity	l	389	478	652	734	1024
30 min. ΔT=44°C	l	882	1120	1345	1504	1882
60 min. ΔT=44°C	l	1390	1784	2048	2286	2733
90 min. ΔT=44°C	l	1898	2449	2752	3068	3583
120 min. ΔT=44°C	l	2406	3113	3455	3856	4433
Continuous ΔT=44°C	l/h	899	1525	1955	2033	2189
Heating-up time ΔT=44°C	min.	20	15	15	19	20
30 min. ΔT=50°C	l	776	985	1183	1324	1656
60 min. ΔT=50°C	l	1223	1570	1802	2012	2405
90 min. ΔT=50°C	l	1670	2155	2422	2700	3153
120 min. ΔT=50°C	l	2118	2740	3041	3388	3901
Continuous ΔT=50°C	l/h	791	1342	1720	1789	1926
Heating-up time ΔT=50°C	min.	22	17	16	22	23
30 min. ΔT=55°C	l	705	896	1076	1203	1506
60 min. ΔT=55°C	l	1112	1427	1639	1829	2186
90 min. ΔT=55°C	l	1518	1959	2201	2454	2866
120 min. ΔT=55°C	l	1925	2491	2764	3080	3546
Continuous ΔT=55°C	l/h	719	1220	1564	1626	1751
Heating-up time ΔT=55°C	min.	25	19	18	24	25
Shipping data						
Weight empty	kg	131	179	229	237	314
Weight incl. packaging	kg	153	201	251	260	348
Width packaging	mm	780	780	870	870	1010
Height packaging	mm	1850	2150	1930	2150	2100
Depth packaging	mm	780	780	870	870	1010

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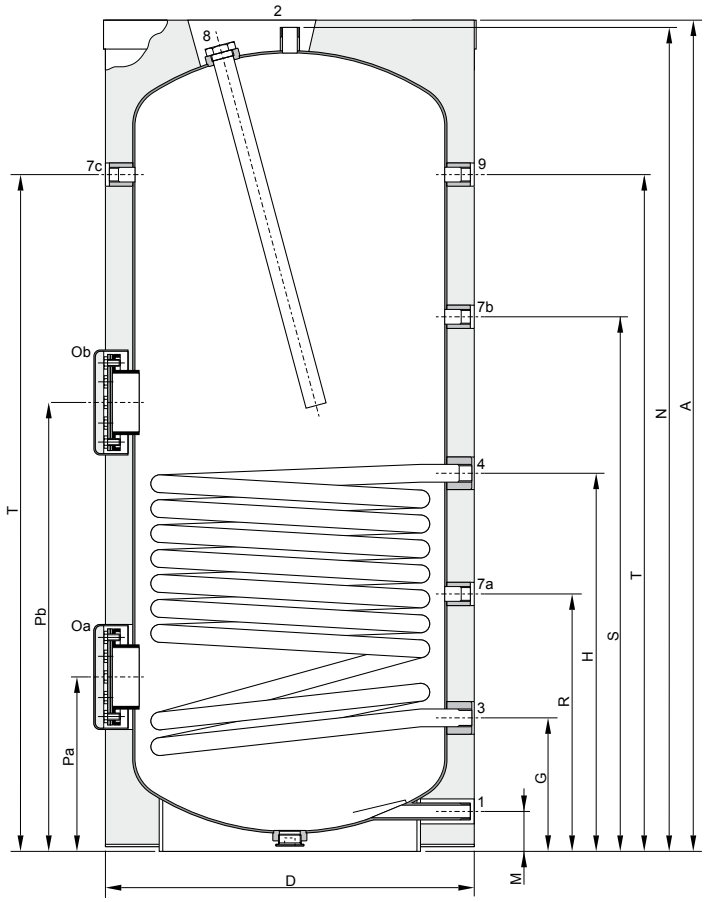
Dimensions

ITE 400-1000



	ITE 400	ITE 500	ITE 600	ITE 750	ITE 1000
A	1705	2040	1835	2030	2000
D	720	720	910	910	1060
G	255	255	304	305	345
H	771	915	906	967	947
M	70	70	85	85	95
N	1652	1990	1797	1992	1962
O	115	115	180	180	180
P*	330	330	412	413	447
P**	897	1029	1062	1113	1087
R	500	500	649	650	700
S	1096	1288	1236	1297	1397
T	1362	1700	1476	1627	1602
U	-	-	-	-	-

1	Cold water	R2	R2	R2 1/2	R2 1/2	R2 1/2
2	Hot water	R2	R2	R2 1/2	R2 1/2	R2 1/2
3	Inlet coil	Rp1	Rp1	Rp1	Rp1 1/4	Rp1 1/4
4	Outlet coil	Rp1	Rp1	Rp1	Rp1 1/4	Rp1 1/4
7	Connection	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4	Rp 3/4
8	Anode connection	Rp1 1/4	Rp1 1/4	Rp1 1/4	Rp1 1/4	Rp1 1/4
8	Connection (female)	1"-11 1/2 npt	1"-11 1/2 npt	1"-11 1/2 npt	1"-11 1/2 npt	1"-11 1/2 npt
10	Anode connection	-				

Dimensions in mm. All ITE calorifiers receive a three years warranty on the tank and one year on parts.
Dimensions for ITE 1500-3000 available upon request.

* Upper cleaning and inspection opening
** Lower cleaning and inspection opening

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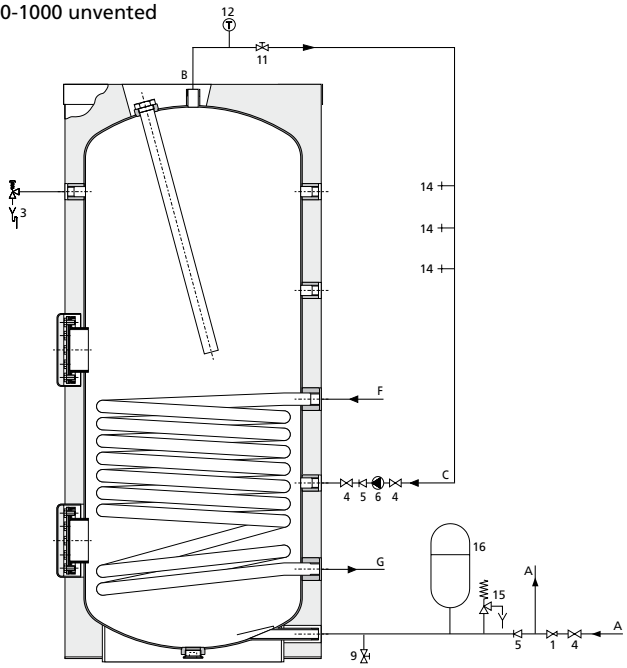
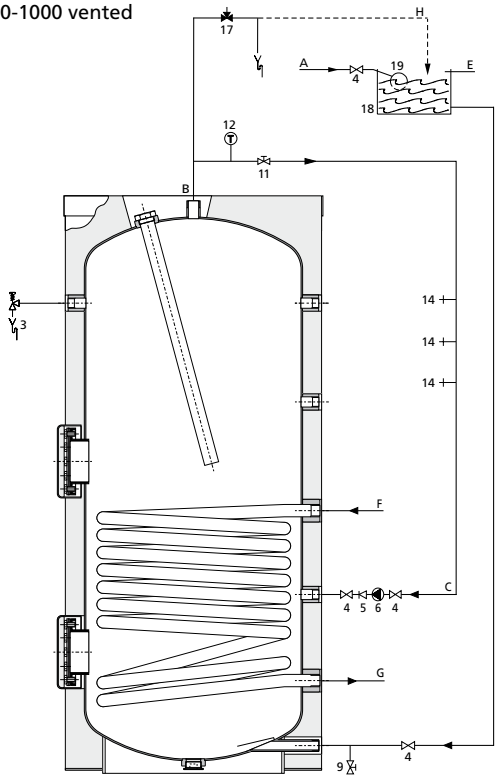
Installation diagrams

ITE 400-1000 unvented



ITE 400-1000 vented



1 Pressure reducing valve
3 T&P valve
4 Stop valve
5 Non-return valve
6 Circulation pump
9 Drain valve
11 Isolating valve
12 Temperature gauge
14 Hot water outlets
15 Expansion relief valve
16 Expansion vessel
17 Three way valve
18 Water tank
19 Float valve

A Cold water
B Hot water
C Return circulation
F Primary flow
G Primary return
E Over flow pipe
H Expansion vent pipe

A.O. Smith unvented system kits utilise combination valves.

Further installation and connection details can be found in the Installation & Commissioning Manual.

For the parts numbers of components please refer to the “Maintenance and accessories” chapter.

Data subject to change INT/0808/ITE/01
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